

## **(PHDR) PORTLAND HARBOR - Dispute Resolution Section 2.0**

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### HEADING: 1.0 Baseline Human Health Risk Assessment Dispute Resolution

#### SUB-HEAD: 1.1 Vol. 1 Dispute Resolution Documents

**Date: No Date on** NCP 40cfr300.

DOCID: 672713

Pages: 277

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / EPA

**Date: 12/1/1989** Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A) Interim Final (rags\_a).

DOCID: 672714

Pages: 291

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / EPA

**Date: 5/29/1992** Guidelines for Exposure Assessment.

DOCID: 672709

Pages: 139

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / EPA

**Date: 2/1/1995** 1995 Guidance for Risk Characterization.

DOCID: 672150

Pages: 15

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / EPA

**Date: 4/19/1996** Tech Memo on 1995 Fish Consumption & Recreational Survey.

DOCID: 672717

Pages: 52

Releasable

(Contains ELECTRONIC REC

**Authors:**

Jean Ochsner / Environmental Science and Assessment, LLC

**Addressee(s):**

Chee Choy / BES

**Date: 11/1/1998** 1998 EPA Guidance for Conducting Fish and Wildlife Consumption Surveys.

DOCID: 672151

Pages: 157

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / EPA

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| <b>SUB-HEAD:</b>          | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b> |
| <b>Date: 3/31/2000</b>    | 2000 DEQ Portland Harbor RIFS Work Plan.  |                                     |
| DOCID: 672152             |   |                                     |
| Pages: 231                | <b>Authors:</b>   |                                     |
| Releasable                | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
| <b>Date: 10/1/2000</b>    | 2000 EPA Methodology for Deriving AWQCs for HH.   |                                     |
| DOCID: 672155             |   |                                     |
| Pages: 185                | <b>Authors:</b>   |                                     |
| Releasable                | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
| <b>Date: 11/1/2000</b>    | 2000 EPA Guidance for Assessing Chemical Contaminant Data for Fish Advisories Volume 1. |                                     |
| DOCID: 672153             |   |                                     |
| Pages: 485                | <b>Authors:</b>   |                                     |
| Releasable                | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
| <b>Date: 11/1/2000</b>    | 2000 EPA Guidance for Assessing Chemical Contaminant Data for Fish Advisories Volume 2. |                                     |
| DOCID: 672154             |   |                                     |
| Pages: 383                | <b>Authors:</b>   |                                     |
| Releasable                | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
| <b>Date: 1/15/2002</b>    | 2002 Public Health Assessment.  |                                     |
| DOCID: 672157             |   |                                     |
| Pages: 48                 | <b>Authors:</b>   |                                     |
| Releasable                | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
| <b>Date: 2/4/2002</b>     | Draft Report - Preliminary Planning, Scoping, and Problem Formulation Document.         |                                     |
| DOCID: 1146368            |   |                                     |
| Pages: 103                | <b>Authors:</b>   |                                     |
| Releasable                | unknown unknown / Striplin Environmental Associates                                     |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
|                           | unknown unknown / Kennedy/Jenks Consultants   |                                     |
|                           | unknown unknown / Windward Environmental, LLC.  |                                     |
|                           | <b>Addressee(s):</b>  |                                     |
|                           | unknown unknown / Lower Willamette Group  |                                     |
| <b>Date: 12/1/2002</b>    | 2002 Fox River BHHRA.   |                                     |
| DOCID: 672156             |   |                                     |
| Pages: 356                | <b>Authors:</b>   |                                     |
| Releasable                | unknown unknown / The RETEC Group, Inc.   |                                     |
| (Contains ELECTRONIC REC) |   |                                     |
|                           | <b>Addressee(s):</b>  |                                     |
|                           | Unknown Unknown / EPA   |                                     |
|                           | unknown unknown / Wisconsin Dept. of Natural Resources                                  |                                     |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>          |
| <b>Date: 5/9/2003</b>    | 2003 Tech Memo - Proposed Fish Consumption Rates.   |  |
| DOCID: 672213            |   |  |
| Pages: 37                |   | <b>Authors:</b>                              |
| Releasable               |   | unknown unknown / Kennedy/Jenks Consultants  |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | unknown unknown / Lower Willamette Group     |
| <b>Date: 7/25/2003</b>   | 2003 EPA Comments on Programmatic Work Plan.  |  |
| DOCID: 672158            |   |  |
| Pages: 68                |   | <b>Authors:</b>                              |
| Releasable               |   | Chip Humphrey / EPA                          |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | James McKenna / Port of Portland             |
|                          |   | Robert Wyatt / Northwest Natural Gas Company |
| <b>Date: 2/11/2004</b>   | 2004 EPA Comments on Programmatic Work Plan.  |  |
| DOCID: 672214            |   |  |
| Pages: 38                |   | <b>Authors:</b>                              |
| Releasable               |   | Chip Humphrey / EPA                          |
| (Contains ELECTRONIC REC |   | Eric Blischke / EPA                          |
|                          |   | <b>Addressee(s):</b>                         |
|                          |   | James McKenna / Port of Portland             |
|                          |   | Robert Wyatt / Northwest Natural Gas Company |
| <b>Date: 2/11/2004</b>   | Re: Portland Harbor Superfund Site; Administrative Order on Consent for Remedial Investigation and Feasibility Study; Docket No. CERCLA-10-2001-0240 RI/FS Work Plan. |  |
| DOCID: 1396808           |   |  |
| Pages: 26                |   | <b>Authors:</b>                              |
| Releasable               |   | Chip Humphrey / EPA                          |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Jim McKenna / Lower Willamette Group         |
|                          |   | Bob Wyatt / Northwest Natural Gas Company    |
| <b>Date: 3/1/2004</b>    | 2004 EPA Office of the Science Advisor Staff Paper.   |  |
| DOCID: 672215            |   |  |
| Pages: 193               |   | <b>Authors:</b>                              |
| Releasable               |   | Unknown Unknown / EPA                        |
| (Contains ELECTRONIC REC |   |  |
| <b>Date: 3/15/2004</b>   | EPA Comments on Programmatic Work Plan.   |  |
| DOCID: 672278            |   |  |
| Pages: 20                |   | <b>Authors:</b>                              |
| Releasable               |   | Chip Humphrey / EPA                          |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Jim McKenna / Port of Portland               |
|                          |   | Robert Wyatt / Northwest Natural Gas Company |

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| <b>SUB-HEAD:</b>   | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>  |
| <b>Date: 4/23/2004</b><br>DOCID: 1185725<br>Pages: 508<br>Releasable<br>(Contains ELECTRONIC REC | Portland Harbor RI/FS: Programmatic Work Plan - Volume One: Text, Figures and Tables. |  |
|  |   | <b>Authors:</b><br>unknown unknown / Groundwater Solutions Inc.<br>unknown unknown / Anchor Environmental, LLC<br>unknown unknown / Integral Consulting, Inc.<br>unknown unknown / Kennedy/Jenks Consultants<br>unknown unknown / Windward Environmental, LLC. |
|  |   | <b>Addressee(s):</b><br>unknown unknown / Lower Willamette Group   |
| <b>Date: 4/23/2004</b><br>DOCID: 1185726<br>Pages: 880<br>Releasable<br>(Contains ELECTRONIC REC | Portland Harbor RI/FS: Programmatic Work Plan - Volume Two: Appendices A - G.         |  |
|  |   | <b>Authors:</b><br>unknown unknown / Groundwater Solutions Inc.<br>unknown unknown / Anchor Environmental, LLC<br>unknown unknown / Integral Consulting, Inc.<br>unknown unknown / Kennedy/Jenks Consultants<br>unknown unknown / Windward Environmental, LLC. |
|  |   | <b>Addressee(s):</b><br>unknown unknown / Lower Willamette Group   |
| <b>Date: 4/23/2004</b><br>DOCID: 1185727<br>Pages: 205<br>Releasable<br>(Contains ELECTRONIC REC | Portland Harbor RI/FS: Programmatic Work Plan - Map Folio.                            |  |
|  |   | <b>Authors:</b><br>unknown unknown / Groundwater Solutions Inc.<br>unknown unknown / Anchor Environmental, LLC<br>unknown unknown / Integral Consulting, Inc.<br>unknown unknown / Kennedy/Jenks Consultants<br>unknown unknown / Windward Environmental, LLC. |
|  |   | <b>Addressee(s):</b><br>unknown unknown / Lower Willamette Group   |
| <b>Date: 6/1/2004</b><br>DOCID: 672277<br>Pages: 7<br>Releasable<br>(Contains ELECTRONIC REC     | 2004 Snake River-Hells Canyon TMDL.   |  |
|  |   | <b>Authors:</b><br>Unknown Unknown / Oregon Department of Environmental Quality<br>Unknown Unknown / Idaho Department of Environmental Quality   |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b> |
| <b>Date: 6/29/2004</b>   | Letter approving the Remedial Investigation/Feasibility Study (RI/FS) Work Plan.       |                                     |
| DOCID: 1210055           |  |                                     |
| Pages: 2                 |  |                                     |
| Releasable               |  |                                     |
| (Contains ELECTRONIC REC |  |                                     |
|                          | <b>Authors:</b>  |                                     |
|                          | Eric Blischke / EPA  |                                     |
|                          | Chip Humphrey / EPA  |                                     |
|                          | <b>Addressee(s):</b>   |                                     |
|                          | James McKenna / Port of Portland   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company   |                                     |
| <b>Date: 2/24/2005</b>   | Letter providing comments on the Human Health Risk Assessment Interim Deliverable -    |                                     |
| DOCID: 1210070           | Exposure Point Concentration Calculation Approach and Summary of Exposure Factors.     |                                     |
| Pages: 6                 |  |                                     |
| Releasable               |  |                                     |
| (Contains ELECTRONIC REC |  |                                     |
|                          | <b>Authors:</b>  |                                     |
|                          | Eric Blischke / EPA  |                                     |
|                          | Chip Humphrey / EPA  |                                     |
|                          | <b>Addressee(s):</b>   |                                     |
|                          | James McKenna / Port of Portland   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company   |                                     |
| <b>Date: 12/2/2005</b>   | EPARound3DataGaps12-02-05.   |                                     |
| DOCID: 612666            |  |                                     |
| Pages: 39                |  |                                     |
| Releasable               |  |                                     |
| (Contains ELECTRONIC REC |  |                                     |
|                          | <b>Authors:</b>  |                                     |
|                          | Unknown Unknown / Unknown  |                                     |
|                          | <b>Addressee(s):</b>   |                                     |
|                          | Unknown Unknown / Unknown  |                                     |
| <b>Date: 12/2/2005</b>   | Letter regarding Identification of Round 3 Sampling Data Gaps with attached Tables and |                                     |
| DOCID: 1244214           | Figures.   |                                     |
| Pages: 29                |  |                                     |
| Releasable               |  |                                     |
| (Contains ELECTRONIC REC |  |                                     |
|                          | <b>Authors:</b>  |                                     |
|                          | Chip Humphrey / EPA  |                                     |
|                          | <b>Addressee(s):</b>   |                                     |
|                          | Jim McKenna / Lower Willamette Group   |                                     |
|                          | Robert Wyatt / Lower Willamette Group  |                                     |
| <b>Date: 11/12/2007</b>  | 2007 LDW BHHRA - Remedial Investigation Report Appendix B: Baseline Human Health Risk  |                                     |
| DOCID: 672279            | Assessment Final.  |                                     |
| Pages: 674               |  |                                     |
| Releasable               |  |                                     |
| (Contains ELECTRONIC REC |  |                                     |
|                          | <b>Authors:</b>  |                                     |
|                          | unknown unknown / Windward Environmental, LLC.   |                                     |
|                          | <b>Addressee(s):</b>   |                                     |
|                          | Unknown Unknown / EPA  |                                     |
|                          | Unknown Unknown / Washington State Dept. of Ecolog                                     |                                     |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b> |
| <b>Date: 1/15/2008</b>   | Letter regarding Administrative Order on Consent for Remedial Investigation and Feasibility Study; Comprehensive Round 2 Site Characterization & Data Gaps Analysis Report. |                                     |
| DOCID: 1254812           |   |                                     |
| Pages: 63                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Jim McKenna / Lower Willamette Group  |                                     |
|                          | Robert Wyatt / Lower Willamette Group   |                                     |
| <b>Date: 4/15/2009</b>   | 2009-04-15 RI-FS Tech Issue Status Table.   |                                     |
| DOCID: 611165            |   |                                     |
| Pages: 11                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Unknown Unknown / Unknown   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / Unknown   |                                     |
| <b>Date: 2/9/2010</b>    | 20100209 DRAFT Davoli comments on draft PH HHRA Tables.   |                                     |
| DOCID: 612552            |   |                                     |
| Pages: 61                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Dana Davoli / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Eric Blischke / EPA   |                                     |
| <b>Date: 2/9/2010</b>    | 20100209 DRAFT Davoli Comments on draft HHRA Attachments..  |                                     |
| DOCID: 612554            |   |                                     |
| Pages: 8                 |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Dana Davoli / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / Unknown   |                                     |
| <b>Date: 7/19/2010</b>   | BHHRA_Specific_Comments_07162010Final.  |                                     |
| DOCID: 613325            |   |                                     |
| Pages: 92                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Unknown Unknown / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / Unknown   |                                     |
| <b>Date: 7/19/2010</b>   | EPA RICommentsCoverLetter 7162010.  |                                     |
| DOCID: 613328            |   |                                     |
| Pages: 4                 |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Eric Blischke / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
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|---|-------------------|---|
| <b>Date: 7/19/2010</b><br>DOCID: 613342<br>Pages: 5<br>Releasable<br>(Contains ELECTRONIC REC   | RI Report         | GeneralComments 7162010.<br><br><b>Authors:</b><br>Unknown Unknown / EPA<br><br><b>Addressee(s):</b><br>Unknown Unknown / Unknown   |
| <b>Date: 9/15/2010</b><br>DOCID: 613487<br>Pages: 5<br>Releasable<br>(Contains ELECTRONIC REC   | 2010-09-15        | General Responses to Directed Comments on BERA.<br><br><b>Authors:</b><br>Jennifer Woronets / Anchor QEA, LLC<br><br><b>Addressee(s):</b><br>Chip Humphrey / EPA                    |
| <b>Date: 9/15/2010</b><br>DOCID: 613488<br>Pages: 8<br>Releasable<br>(Contains ELECTRONIC REC   | 2010-09-15        | General Responses to Directed Comments on BHHRA.<br><br><b>Authors:</b><br>Jennifer Woronets / Anchor QEA, LLC<br><br><b>Addressee(s):</b><br>Chip Humphrey / EPA                   |
| <b>Date: 9/15/2010</b><br>DOCID: 613490<br>Pages: 2<br>Releasable<br>(Contains ELECTRONIC REC   | 2010-09-15        | LWG General responses to EPA directed BHHRA and BERA comments.<br><br><b>Authors:</b><br>Jennifer Woronets / Anchor QEA, LLC<br><br><b>Addressee(s):</b><br>Chip Humphrey / EPA     |
| <b>Date: 9/22/2010</b><br>DOCID: 662939<br>Pages: 2<br>Releasable<br>(Contains ELECTRONIC REC   | 2010-9-22         | EPA Response Directed Comment Tables.<br><br><b>Authors:</b><br>Chip Humphrey / EPA<br><br><b>Addressee(s):</b><br>Robert Wyatt / Lower Willamette Group                            |
| <b>Date: 11/18/2010</b><br>DOCID: 663460<br>Pages: 16<br>Releasable<br>(Contains ELECTRONIC REC | 11_18_10          | email attachment; 2010-11-18 NonDirected Comment Responses for BERA.<br><br><b>Authors:</b><br>unknown unknown / Unknown<br><br><b>Addressee(s):</b><br>unknown unknown / Unknown   |
| <b>Date: 11/18/2010</b><br>DOCID: 663462<br>Pages: 9<br>Releasable<br>(Contains ELECTRONIC REC  | 11_18_10          | email attachment; 2010-11-18 NonDirective Comment Responses for BHHRA.<br><br><b>Authors:</b><br>unknown unknown / Unknown<br><br><b>Addressee(s):</b><br>unknown unknown / Unknown |



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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>        |
| <b>Date:</b> 11/18/2010  | 11_18_10 email attachment; 2010-11-18 NonDirective Comment Responses for RI.  |  |
| DOCID: 663463            |   |  |
| Pages: 19                |   | <b>Authors:</b>                            |
| Releasable               |   | unknown unknown / Unknown                  |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | unknown unknown / Unknown                  |
| <b>Date:</b> 11/18/2010  | 11_18_10 email; General Responses to EPA's Non-Directive Comment Key Issues on the RI, BERA and BHHRA.                              |  |
| DOCID: 663464            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                            |
| Releasable               |   | Jennifer Woronets / Anchor QEA, LLC        |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | Eric Blischke / EPA                        |
|                          |   | Chip Humphrey / EPA                        |
| <b>Date:</b> 12/8/2010   | 12_08_10 email attachment; EPA Response NonDirectedCommentTables120810.   |  |
| DOCID: 663513            |   |  |
| Pages: 6                 |   | <b>Authors:</b>                            |
| Releasable               |   | unknown unknown / Unknown                  |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | unknown unknown / Unknown                  |
| <b>Date:</b> 1/1/2011    | Table 6 - LWG Response to Fish Consumption Studies Cited by EPA.  |  |
| DOCID: 672716            |   |  |
| Pages: 1                 |   | <b>Authors:</b>                            |
| Releasable               |   | unknown unknown / Lower Willamette Group   |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | Unknown Unknown / EPA                      |
| <b>Date:</b> 1/12/2011   | 01_12_11 email attachment; 2011-01-12 Comprehensive Response to EPA September 27 2010 December 8 2010 and December 21 2010 Letters. |  |
| DOCID: 662416            |   |  |
| Pages: 13                |   | <b>Authors:</b>                            |
| Releasable               |   | Bob Wyatt / Lower Willamette Group         |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | Chip Humphrey / EPA                        |
| <b>Date:</b> 1/12/2011   | 01_12_11 email; LWG Response to EPA September 27, 2010, December 8, 2010 and December 21, 2010 letters. Additional addressees.      |  |
| DOCID: 662418            |   |  |
| Pages: 1                 |   | <b>Authors:</b>                            |
| Releasable               |   | Jennifer Woronets / Lower Willamette Group |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                       |
|                          |   | Chip Humphrey / EPA                        |
|                          |   | Keith Pine / Lower Willamette Group        |
|                          |   | Bob Wyatt / Lower Willamette Group         |
|                          |   | Jim McKenna / Lower Willamette Group       |
|                          |   | Carl Stivers / Anchor QEA, LLC             |

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| <b>Date: 2/22/2011</b>   | 02_22_11 email; Wednesday, February 23rd Focused Technical MNR Modeling        |                                      |
| DOCID: 662604            | Presentation.  |                                      |
| Pages: 3                 |  |                                      |
| Releasable               |  | <b>Authors:</b>                      |
| (Contains ELECTRONIC REC |  | Jennifer Woronets / Anchor QEA, LLC  |
|                          |  | <b>Addressee(s):</b>                 |
|                          |  | Kristine Koch / EPA                  |
|                          |  | Chip Humphrey / EPA                  |
| <b>Date: 2/25/2011</b>   | 02_25_11 email attachment; 2011-02-25_Portland_Harbor_RI-FS_Schedule_DRAFT.    |                                      |
| DOCID: 662607            |  |                                      |
| Pages: 2                 |  | <b>Authors:</b>                      |
| Releasable               |  | Unknown Unknown / Unknown            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                 |
|                          |  | Unknown Unknown / Unknown            |
| <b>Date: 2/25/2011</b>   | 02_25_11 email attachment; PH RIFS Schedule Letter 02-25-2011.                 |                                      |
| DOCID: 662608            |  |                                      |
| Pages: 8                 |  | <b>Authors:</b>                      |
| Releasable               |  | Chip Humphrey / EPA                  |
| (Contains ELECTRONIC REC |  | Kristine Koch / EPA                  |
|                          |  | <b>Addressee(s):</b>                 |
|                          |  | Bob Wyatt / Lower Willamette Group   |
|                          |  | Jim McKenna / Lower Willamette Group |
| <b>Date: 2/25/2011</b>   | 02_25_11 email attachment; PH RIFS Schedule Letter 02-25-2011 Attachment - EPA |                                      |
| DOCID: 662610            | Clarifications to Resolution of EPA benthic Comments.                          |                                      |
| Pages: 3                 |  | <b>Authors:</b>                      |
| Releasable               |  | Unknown Unknown / Unknown            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                 |
|                          |  | Unknown Unknown / Unknown            |
| <b>Date: 2/25/2011</b>   | 02_25_11 email; EPA Response Letter Re Portland Harbor RIFS Schedule.          |                                      |
| DOCID: 662611            |  |                                      |
| Pages: 1                 |  | <b>Authors:</b>                      |
| Releasable               |  | Kristine Koch / EPA                  |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                 |
|                          |  | Bob Wyatt / Lower Willamette Group   |
|                          |  | Jim McKenna / Lower Willamette Group |
|                          |  | Jennifer Woronets / Anchor QEA, LLC  |
| <b>Date: 2/25/2011</b>   | 02_25_11 email; Portland Harbor RIFS Detailed Project Schedule.                |                                      |
| DOCID: 662614            |  |                                      |
| Pages: 1                 |  | <b>Authors:</b>                      |
| Releasable               |  | Jennifer Woronets / Anchor QEA, LLC  |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                 |
|                          |  | Kristine Koch / EPA                  |
|                          |  | Chip Humphrey / EPA                  |

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| <b>Date: 2/25/2011</b>   | PH RIFS Scedule Letter 02-25-2011.  |                                     |
| DOCID: 663248            |   |                                     |
| Pages: 8                 |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Kristine Koch / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Jim McKenna / Lower Willamette Group  |                                     |
|                          | Bob Wyatt / Lower Willamette Group  |                                     |
| <b>Date: 4/27/2011</b>   | EPA comments re_PBDE risk calculations.   |                                     |
| DOCID: 643907            |   |                                     |
| Pages: 1                 |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | Jim McKenna / Lower Willamette Group  |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Kristine Koch / EPA   |                                     |
| <b>Date: 5/2/2011</b>    | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: Figures.          |                                     |
| DOCID: 662300            |   |                                     |
| Pages: 35                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | unknown unknown / Lower Willamette Group  |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / EPA Region 10   |                                     |
| <b>Date: 5/2/2011</b>    | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: Section 2 Tables. |                                     |
| DOCID: 662302            |   |                                     |
| Pages: 33                |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | unknown unknown / Kennedy Jenks Consultants                                       |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | unknown unknown / Lower Willamette Group  |                                     |
| <b>Date: 5/2/2011</b>    | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: Section 3 Tables. |                                     |
| DOCID: 662303            |   |                                     |
| Pages: 277               |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | unknown unknown / Kennedy Jenks Consultants                                       |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | unknown unknown / Lower Willamette Group  |                                     |
| <b>Date: 5/2/2011</b>    | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: Section 4 Tables. |                                     |
| DOCID: 662304            |   |                                     |
| Pages: 8                 |   |                                     |
| Releasable               |   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
|                          | <b>Authors:</b>   |                                     |
|                          | unknown unknown / Kennedy Jenks Consultants                                       |                                     |
|                          | <b>Addressee(s):</b>  |                                     |
|                          | unknown unknown / Lower Willamette Group  |                                     |

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| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Section 5 Tables.   |
| DOCID: 662305            |                   |  |
| Pages: 2767              |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Section 6 Tables.   |
| DOCID: 662306            |                   |  |
| Pages: 9                 |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Section 7 Tables.   |
| DOCID: 662307            |                   |  |
| Pages: 3                 |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Draft Final RI Report, Appendix F-BHHRA Main Text.          |
| DOCID: 662308            |                   |  |
| Pages: 203               |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Draft Final RI Report, Appendix F-BHHRA Comment - Response. |
| DOCID: 662309            |                   |  |
| Pages: 45                |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F1.  |
| DOCID: 662310            |                   |  |
| Pages: 20                |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F2.  |
| DOCID: 662311            |                   |  |
| Pages: 117               |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants  |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group   |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b> | <b>Dispute Resolution Documents</b>                                    |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F3.    |
| DOCID: 662312            |                   |  |
| Pages: 155               |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants                            |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group                               |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F4.    |
| DOCID: 662313            |                   |  |
| Pages: 1562              |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants                            |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group                               |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F5.    |
| DOCID: 662314            |                   |  |
| Pages: 6                 |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants                            |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group                               |
| <b>Date: 5/2/2011</b>    | 05-02-2011        | Revised Draft Baseline Human Health Risk Assessment: Attachment F6.    |
| DOCID: 662315            |                   |  |
| Pages: 30                |                   | <b>Authors:</b>  |
| Releasable               |                   | unknown unknown / Kennedy Jenks Consultants                            |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | unknown unknown / Lower Willamette Group                               |
| <b>Date: 5/2/2011</b>    | 05_02_11          | email; LWG Draft Final Baseline Human Health Risk Assessment.          |
| DOCID: 662820            |                   |  |
| Pages: 2                 |                   | <b>Authors:</b>  |
| Releasable               |                   | Jennifer Woronets / Anchor QEA, LLC                                    |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | Chip Humphrey / EPA  |
|                          |                   | Kristine Koch / EPA  |
| <b>Date: 5/6/2011</b>    | 05_06_11          | email attachment; 2011-05-06 Response to EPA April 11 2011 Comments on |
| DOCID: 662824            |                   | BHHRA Risk Tables and Calculations.                                    |
| Pages: 2                 |                   | <b>Authors:</b>  |
| Releasable               |                   | Bob Wyatt / Lower Willamette Group                                     |
| (Contains ELECTRONIC REC |                   | <b>Addressee(s):</b>   |
|                          |                   | Kristine Koch / EPA  |
|                          |                   | Chip Humphrey / EPA  |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b>                  |
| <b>Date: 5/6/2011</b>    | 05_06_11 email; Response to EPA April 11, 2011 Comments on BHHRA Risk Tables and Calculations. |  |
| DOCID: 662827            |  |  |
| Pages: 2                 |  |  |
| Releasable               |  | <b>Authors:</b>                                      |
| (Contains ELECTRONIC REC |  | Jennifer Woronets / Anchor QEA, LLC                  |
|                          |  | <b>Addressee(s):</b>                                 |
|                          |  | Kristine Koch / EPA                                  |
|                          |  | Chip Humphrey / EPA                                  |
| <b>Date: 6/29/2011</b>   | 2011 EPA Memorandum; Options for Responding to Deficient Deliverables from PRPs.               |  |
| DOCID: 672281            |  |  |
| Pages: 7                 |  | <b>Authors:</b>                                      |
| Releasable               |  | Elliott Gilberg / EPA                                |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                                 |
|                          |  | Unknown Unknown / EPA                                |
| <b>Date: 7/21/2011</b>   | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: BHHRA Letter 07-21-2011.       |  |
| DOCID: 662298            |  |  |
| Pages: 2                 |  | <b>Authors:</b>                                      |
| Releasable               |  | Chip Humphrey / EPA                                  |
| (Contains ELECTRONIC REC |  | Kristine Koch / EPA                                  |
|                          |  | <b>Addressee(s):</b>                                 |
|                          |  | Bob Wyatt / Lower Willamette Group                   |
|                          |  | Jim Anderson / Oregon Dept. of Environmental Quality |
|                          |  | Robert Neely / NOAA                                  |
|                          |  | Ted Buerger / U. S. Fish and Wildlife Service        |
|                          |  | Brian Cunninghame / Confederated Tribes of the Warr  |
| <b>Date: 7/22/2011</b>   | 07_22_11 email; EPA request for human health risk assessment documents.                        |  |
| DOCID: 663221            |  |  |
| Pages: 1                 |  | <b>Authors:</b>                                      |
| Releasable               |  | Chip Humphrey / EPA                                  |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                                 |
|                          |  | Jim McKenna / Lower Willamette Group                 |
|                          |  | Bob Wyatt / Lower Willamette Group                   |
| <b>Date: 7/29/2011</b>   | 07_29_11 email attachment; DredgeVolComp.  |  |
| DOCID: 663269            |  |  |
| Pages: 0                 |  | <b>Authors:</b>                                      |
| Releasable               |  | unknown unknown / Unknown                            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                                 |
|                          |  | unknown unknown / Unknown                            |

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| <b>Date: 7/29/2011</b>   | 07_29_11 email; Dispute deadline for comment #16 FS Key Elements.     |  |
| DOCID: 663270            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                                  |
| Releasable               |   | Chip Humphrey / EPA                              |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | Jim McKenna / Lower Willamette Group             |
|                          |   | Richard Applegate / City of Portland, Oregon     |
|                          |   | Jennifer Woronets / Anchor QEA, LLC              |
| <b>Date: 7/29/2011</b>   | 07_29_11 email attachment; DredgeVolComp.                             |  |
| DOCID: 663271            |   |  |
| Pages: 0                 |   | <b>Authors:</b>                                  |
| Releasable               |   | unknown unknown / Lower Willamette Group         |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | unknown unknown / Lower Willamette Group         |
| <b>Date: 7/29/2011</b>   | 07_29_11 email; Dispute deadline for comment #16 FS Key Elements.     |  |
| DOCID: 663272            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                                  |
| Releasable               |   | Chip Humphrey / EPA                              |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | Jim mckenna / Unknown                            |
|                          |   | Jennifer Woronets / Anchor QEA, LLC              |
| <b>Date: 9/2/2011</b>    | 05-02-2011 Revised Draft Baseline Human Health Risk Assessment: Maps. |  |
| DOCID: 662301            |   |  |
| Pages: 34                |   | <b>Authors:</b>                                  |
| Releasable               |   | unknown unknown / Kennedy Jenks Consultants      |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | unknown unknown / Lower Willamette Group         |
| <b>Date: 12/14/2011</b>  | CMS AL-11-001-9338 Blumenauer.  |  |
| DOCID: 665019            |   |  |
| Pages: 10                |   | <b>Authors:</b>                                  |
| Releasable               |   | Dennis McLerran / EPA Regional Administrator     |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | Earl Blumenauer / U. S. House of Representatives |
| <b>Date: 12/14/2011</b>  | CMS AL-11-001-9338 Merkley.   |  |
| DOCID: 665020            |   |  |
| Pages: 10                |   | <b>Authors:</b>                                  |
| Releasable               |   | Dennis McLerran / EPA Regional Administrator     |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                             |
|                          |   | Jeff Merkley / U. S. Senate                      |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b>            |
| <b>Date: 12/14/2011</b>  | CMS AI-11-001-9338 Schrader.   |  |
| DOCID: 665021            |  |  |
| Pages: 10                |  | <b>Authors:</b>                                |
| Releasable               |  | Dennis McLerran / EPA Regional Administrator   |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                           |
|                          |  | Kurt Schrader / U. S. House of Representatives |
| <b>Date: 12/14/2011</b>  | CMS AL-11-001-9338 Wyden.  |  |
| DOCID: 665022            |  |  |
| Pages: 10                |  | <b>Authors:</b>                                |
| Releasable               |  | Dennis McLerran / EPA Regional Administrator   |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                           |
|                          |  | Ron Wyden / U. S. Senate                       |
| <b>Date: 6/22/2012</b>   | 2012_6_22_BHHRA Comment Letter.  |  |
| DOCID: 662943            |  |  |
| Pages: 4                 |  | <b>Authors:</b>                                |
| Releasable               |  | Kristine Koch / EPA                            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                           |
|                          |  | Robert Wyatt / Lower Willamette Group          |
| <b>Date: 6/29/2012</b>   | 06_29_12 email attachment; 2012-06-29 LWG Response to EPA Directed Modifications and Additional Comments on BHHRA. |  |
| DOCID: 663051            |  |  |
| Pages: 2                 |  | <b>Authors:</b>                                |
| Releasable               |  | Bob Wyatt / Lower Willamette Group             |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                           |
|                          |  | Chip Humphrey / EPA                            |
|                          |  | Kristine Koch / EPA                            |
| <b>Date: 6/29/2012</b>   | 06_29_12 email; Response to EPA June 22, 2012 Comments on May 2, 2011 Draft BHHRA.                                 |  |
| DOCID: 663052            |  |  |
| Pages: 3                 |  | <b>Authors:</b>                                |
| Releasable               |  | Jennifer Woronets / Anchor QEA, LLC            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                           |
|                          |  | Chip Humphrey / EPA                            |
|                          |  | Kristine Koch / EPA                            |
| <b>Date: 7/12/2012</b>   |  |  |
| DOCID: 671776            |  | <b>Authors:</b>                                |
| Pages: 0                 |  | Kristine Koch / EPA                            |
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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b> |
| <b>Date: 7/12/2012</b>   | Portland Harbor - Scheduling Conference Call to Discuss EPA.            |                                     |
| DOCID: 671789            |   |                                     |
| Pages: 5                 | <b>Authors:</b>   |                                     |
| Releasable               | Kristine Koch / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | James McKenna / McKenna Environmental, LLC                              |                                     |
| <b>Date: 7/12/2012</b>   | email; EPA's Response to LWG's Opening Submission on the BHHRA Dispute. |                                     |
| DOCID: 672146            |   |                                     |
| Pages: 1                 | <b>Authors:</b>   |                                     |
| Releasable               | Kristine Koch / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company                            |                                     |
|                          | Cami Grandinetti / EPA  |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Lori Cora / EPA   |                                     |
| <b>Date: 7/12/2012</b>   | mtg attendance sheet.   |                                     |
| DOCID: 672539            |   |                                     |
| Pages: 2                 | <b>Authors:</b>   |                                     |
| Releasable               | Kristine Koch / EPA   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
| <b>Date: 7/17/2012</b>   | BHHRA_Main_Text_clean with redline resolution EA_LWG redlines.          |                                     |
| DOCID: 672543            |   |                                     |
| Pages: 145               | <b>Authors:</b>   |                                     |
| Releasable               | unknown unknown / Lower Willamette Group                                |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / EPA   |                                     |
| <b>Date: 7/23/2012</b>   | 07_23_12 email; LWG Dispute of Modified Risk Assessment.                |                                     |
| DOCID: 671790            |   |                                     |
| Pages: 1                 | <b>Authors:</b>   |                                     |
| Releasable               | Lori Houck-Cora / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Kristine Koch / EPA   |                                     |
| <b>Date: 7/23/2012</b>   | LWG Notice of Objection and Request for Dispute Resolution.             |                                     |
| DOCID: 672538            |   |                                     |
| Pages: 7                 | <b>Authors:</b>   |                                     |
| Releasable               | unknown unknown / Lower Willamette Group                                |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Kristine Koch / EPA   |                                     |

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| <b>Date: 7/25/2012</b>   | 07_25_12 email; Proposed First Dispute Resolution Meeting and Requested Ground .       |  |
| DOCID: 671791            |  |  |
| Pages: 2                 |  | <b>Authors:</b>                            |
| Releasable               |  | James McKenna / McKenna Environmental, LLC |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Deborah Yamamoto / EPA                     |
| <b>Date: 7/26/2012</b>   | 07_26_12 email; Proposed First Dispute Resolution Meeting and Requested Ground Rules.  |  |
| DOCID: 671792            |  |  |
| Pages: 3                 |  | <b>Authors:</b>                            |
| Releasable               |  | Bob Wyatt / Northwest Natural Gas Company  |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Deborah Yamamoto / EPA                     |
| <b>Date: 7/27/2012</b>   | email attachment; 2012-07-27 Basis for Noncompliance.                                  |  |
| DOCID: 671889            |  |  |
| Pages: 23                |  | <b>Authors:</b>                            |
| Releasable               |  | Unknown Unknown / EPA                      |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Unknown Unknown / Unknown                  |
| <b>Date: 7/27/2012</b>   | email attachment; Draft Agenda - Portland Harbor Dispute Resolution Meeting 7-31-2011. |  |
| DOCID: 671890            |  |  |
| Pages: 1                 |  | <b>Authors:</b>                            |
| Releasable               |  | Unknown Unknown / EPA                      |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Unknown Unknown / Unknown                  |
| <b>Date: 7/27/2012</b>   | email; Portland Harbor BHHRA Dispute.  |  |
| DOCID: 671891            |  |  |
| Pages: 1                 |  | <b>Authors:</b>                            |
| Releasable               |  | Lori Cora / EPA                            |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Stephen Parkinson / Unknown                |
|                          |  | Kristine Koch / EPA                        |
|                          |  | Chip Humphrey / EPA                        |
|                          |  | Deborah Yamamoto / EPA                     |
| <b>Date: 7/27/2012</b>   | email; Proposed First Dispute Resolution Meeting and Requested Ground Rules.           |  |
| DOCID: 671892            |  |  |
| Pages: 3                 |  | <b>Authors:</b>                            |
| Releasable               |  | Deborah Yamamoto / EPA                     |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                       |
|                          |  | Robert Wyatt / NW Natural                  |

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| <b>SUB-HEAD:</b>          | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b> |
| <b>Date: 7/27/2012</b>    | Basis for Noncompliance.   |                                     |
| DOCID: 672282             |  |                                     |
| Pages: 23                 | <b>Authors:</b>  |                                     |
| Releasable                | Unknown Unknown / EPA  |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
| <b>Date: 7/29/2012</b>    | email; Proposed First Dispute Resolution Meeting and Requested Ground Rules. |                                     |
| DOCID: 671893             |  |                                     |
| Pages: 3                  | <b>Authors:</b>  |                                     |
| Releasable                | Robert Wyatt / Northwest Natural Gas Company                                 |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
|                           | <b>Addressee(s):</b>   |                                     |
|                           | Deborah Yamamoto / EPA   |                                     |
| <b>Date: 7/31/2012</b>    | email attachment; 073112mtgattendancesheet.                                  |                                     |
| DOCID: 671894             |  |                                     |
| Pages: 2                  | <b>Authors:</b>  |                                     |
| Releasable                | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
|                           | <b>Addressee(s):</b>   |                                     |
|                           | unknown unknown / Unknown  |                                     |
| <b>Date: 7/31/2012</b>    | email; Today's attendance sheet.   |                                     |
| DOCID: 671895             |  |                                     |
| Pages: 1                  | <b>Authors:</b>  |                                     |
| Releasable                | Lori Cora / EPA  |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
|                           | <b>Addressee(s):</b>   |                                     |
|                           | Kristine Koch / EPA  |                                     |
|                           | Chip Humphrey / EPA  |                                     |
|                           | Deborah Yamamoto / EPA   |                                     |
| <b>Date: 8/1/2012</b>     | email; Confirmation of Extension for Informal Dispute Resolution.            |                                     |
| DOCID: 671896             |  |                                     |
| Pages: 2                  | <b>Authors:</b>  |                                     |
| Releasable                | Deborah Yamamoto / EPA   |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
|                           | <b>Addressee(s):</b>   |                                     |
|                           | Robert Wyatt / Northwest Natural Gas Company                                 |                                     |
|                           | Kristine Koch / EPA  |                                     |
| <b>Date: 8/2/2012</b>     | email 2; Confirmation of Extension for Informal Dispute Resolution.          |                                     |
| DOCID: 671897             |  |                                     |
| Pages: 3                  | <b>Authors:</b>  |                                     |
| Releasable                | Robert Wyatt / Northwest Natural Gas Company                                 |                                     |
| (Contains ELECTRONIC REC) |  |                                     |
|                           | <b>Addressee(s):</b>   |                                     |
|                           | Kristine Koch / EPA  |                                     |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>          |
| <b>Date: 8/2/2012</b>    | email; Confirmation of Extension for Informal Dispute Resolution.                 |  |
| DOCID: 671898            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                              |
| Releasable               |   | Robert Wyatt / Northwest Natural Gas Company |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Kristine Koch / EPA                          |
| <b>Date: 8/15/2012</b>   | email; LWG List of Key Issues on Draft Final BHHRA.                               |  |
| DOCID: 671899            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                              |
| Releasable               |   | Jennifer Woronets / Lower Willamette Group   |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Chip Humphrey / EPA                          |
|                          |   | Kristine Koch / EPA                          |
| <b>Date: 8/15/2012</b>   | LWG Tabulated Issues Associated with EPA's Modified Draft Final BHHRA.            |  |
| DOCID: 672283            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                              |
| Releasable               |   | Robert Wyatt / Northwest Natural Gas Company |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Chip Humphrey / EPA                          |
|                          |   | Kristine Koch / EPA                          |
| <b>Date: 8/15/2012</b>   | Table 1- LWG Comments on EPA BHHRA Requiring Discussion with EPA.                 |  |
| DOCID: 672284            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                              |
| Releasable               |   | unknown unknown / Lower Willamette Group     |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | unknown Unknown / EPA                        |
| <b>Date: 8/15/2012</b>   | Table 2- LWG Comments on EPA BHHRA Do Not Require Discussion Unless EPA Requests. |  |
| DOCID: 672285            |   |  |
| Pages: 6                 |   | <b>Authors:</b>                              |
| Releasable               |   | unknown unknown / Lower Willamette Group     |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Unknown Unknown / EPA                        |
| <b>Date: 8/16/2012</b>   | email; LWG List of Key Issues on Draft Final BHHRA.                               |  |
| DOCID: 671900            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                              |
| Releasable               |   | Kristine Koch / EPA                          |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Robert Wyatt / Northwest Natural Gas Company |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b> |
| <b>Date: 8/21/2012</b>   | email 2; LWG List of Key Issues on Draft Final BHHRA.  |                                     |
| DOCID: 671901            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company   |                                     |
| <b>Date: 8/21/2012</b>   | email; LWG List of Key Issues on Draft Final BHHRA.  |                                     |
| DOCID: 671902            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company   |                                     |
| <b>Date: 8/21/2012</b>   | LWG Dispute Issues_EPA Proposed Resolution DRAFT 8-21-2012.                                      |                                     |
| DOCID: 672712            |  |                                     |
| Pages: 1                 | <b>Authors:</b>  |                                     |
| Releasable               | unknown unknown / Lower Willamette Group   |                                     |
| (Contains ELECTRONIC REC |  |                                     |
| <b>Date: 8/23/2012</b>   | email; Redline version of BHHRA.   |                                     |
| DOCID: 671903            |  |                                     |
| Pages: 1                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company   |                                     |
| <b>Date: 8/27/2012</b>   | email; LWG comments on EPA's noncompliance list.   |                                     |
| DOCID: 671904            |  |                                     |
| Pages: 1                 | <b>Authors:</b>  |                                     |
| Releasable               | Lori Cora / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Stephen Parkinson / Unknown  |                                     |
| <b>Date: 8/29/2012</b>   | email; Reasonable Maximum Exposure (RME) Proposal for the Baseline Human Health Risk Assessment. |                                     |
| DOCID: 672126            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Jennifer Woronets / Anchor QEA, LLC  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Kristine Koch / EPA  |                                     |
|                          | Chip Humphrey / EPA  |                                     |
| <b>Date: 8/29/2012</b>   | RME Fish Consumption Proposal.   |                                     |
| DOCID: 672286            |  |                                     |
| Pages: 3                 | <b>Authors:</b>  |                                     |
| Releasable               | unknown unknown / Lower Willamette Group   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Unknown Unknown / EPA  |                                     |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b> |
| <b>Date: 8/30/2012</b>   | email; EPA incorporated resolutions to PH BHHRA.                 |                                     |
| DOCID: 672127            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company                     |                                     |
| <b>Date: 8/30/2012</b>   | BHHRA_Main_Text_clean with redline resolution EA_LWG comments.   |                                     |
| DOCID: 672540            |  |                                     |
| Pages: 142               | <b>Authors:</b>  |                                     |
| Releasable               | unknown unknown / Lower Willamette Group                         |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Unknown Unknown / EPA  |                                     |
| <b>Date: 8/31/2012</b>   | email; Extension of Portland Harbor Informal Dispute Period.     |                                     |
| DOCID: 672128            |  |                                     |
| Pages: 1                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Robert Wyatt / Northwest Natural Gas Company                     |                                     |
| <b>Date: 8/31/2012</b>   | Letter re LWG Request for Extension on BHHRA Dispute Resolution. |                                     |
| DOCID: 672541            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Bob Wyatt / Northwest Natural Gas Company                        |                                     |
| <b>Date: 9/4/2012</b>    | email; LWG Proposal for dispute process.                         |                                     |
| DOCID: 672129            |  |                                     |
| Pages: 1                 | <b>Authors:</b>  |                                     |
| Releasable               | Kristine Koch / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Deborah Yamamoto / EPA   |                                     |
|                          | Kristine Koch / EPA  |                                     |
|                          | Chip Humphrey / EPA  |                                     |
|                          | Cami Grandinetti / EPA   |                                     |
|                          | Elizabeth Allen / EPA  |                                     |
| <b>Date: 9/5/2012</b>    | email; LWG Comments on EPA's Redline BHHRA.                      |                                     |
| DOCID: 672130            |  |                                     |
| Pages: 2                 | <b>Authors:</b>  |                                     |
| Releasable               | Jennifer Woronets / Anchor QEA, LLC                              |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>   |                                     |
|                          | Kristine Koch / EPA  |                                     |
|                          | Chip Humphrey / EPA  |                                     |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b>          |
| <b>Date: 9/7/2012</b>    | email; LWG Proposal to Address Key Context Information and Uncertainties in the Final BHHRA. |  |
| DOCID: 672131            |  |  |
| Pages: 2                 |  |  |
| Releasable               |  | <b>Authors:</b>                              |
| (Contains ELECTRONIC REC |  | Jennifer Woronets / Anchor QEA, LLC          |
|                          |  | <b>Addressee(s):</b>                         |
|                          |  | Kristine Koch / EPA                          |
|                          |  | Chip Humphrey / EPA                          |
| <b>Date: 9/7/2012</b>    | email; LWG Proposal to Address Primary Contributors in the Final BHHRA.                      |  |
| DOCID: 672132            |  |  |
| Pages: 2                 |  |  |
| Releasable               |  | <b>Authors:</b>                              |
| (Contains ELECTRONIC REC |  | Jennifer Woronets / Anchor QEA, LLC          |
|                          |  | <b>Addressee(s):</b>                         |
|                          |  | Kristine Koch / EPA                          |
|                          |  | Chip Humphrey / EPA                          |
| <b>Date: 9/7/2012</b>    | email; Portland Harbor Dispute Path Forward.   |  |
| DOCID: 672133            |  |  |
| Pages: 2                 |  |  |
| Releasable               |  | <b>Authors:</b>                              |
| (Contains ELECTRONIC REC |  | Lori Cora / EPA                              |
|                          |  | <b>Addressee(s):</b>                         |
|                          |  | Stephen Parkinson / Unknown                  |
|                          |  | Robert Wyatt / Northwest Natural Gas Company |
| <b>Date: 9/11/2012</b>   | BHHRA_Main_Text_clean with redline resolution EA_LWG redlines.                               |  |
| DOCID: 672542            |  |  |
| Pages: 143               |  |  |
| Releasable               |  | <b>Authors:</b>                              |
| (Contains ELECTRONIC REC |  | unknown unknown / Lower Willamette Group     |
|                          |  | <b>Addressee(s):</b>                         |
|                          |  | Unknown Unknown / EPA                        |
| <b>Date: 9/14/2012</b>   | email; Portland Harbor BHHRA informal disptue extension request.                             |  |
| DOCID: 672134            |  |  |
| Pages: 3                 |  |  |
| Releasable               |  | <b>Authors:</b>                              |
| (Contains ELECTRONIC REC |  | Jennifer Woronets / Anchor QEA, LLC          |
|                          |  | <b>Addressee(s):</b>                         |
|                          |  | Kristine Koch / EPA                          |
|                          |  | Chip Humphrey / EPA                          |
|                          |  | Deborah Yamamoto / EPA                       |
|                          |  | Lori Cora / EPA                              |
|                          |  | Cami Grandinetti / EPA                       |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>          |
| <b>Date: 9/14/2012</b>   | email; Portland Harbor BHHRA.   |  |
| DOCID: 672135            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                              |
| Releasable               |   | Jennifer Woronets / Anchor QEA, LLC          |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Chip Humphrey / EPA                          |
|                          |   | Kristine Koch / EPA                          |
| <b>Date: 9/14/2012</b>   | 09_14_12 email; Reasonable Maximum Exposure (RME) Proposal for the Baseline Human |  |
| DOCID: 672136            | Health Risk Assessment  |  |
| Pages: 6                 |   | <b>Authors:</b>                              |
| Releasable               |   | Robert Wyatt / Northwest Natural Gas Company |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                         |
|                          |   | Deborah Yamamoto / EPA                       |
| <b>Date: 9/17/2012</b>   | email; Portland Harbor BHHRA informal dispute extension request.                  |  |
| DOCID: 672137            |   | <b>Authors:</b>                              |
| Pages: 3                 |   | Lori Cora / EPA                              |
| Releasable               |   | <b>Addressee(s):</b>                         |
| (Contains ELECTRONIC REC |   | Kristine Koch / EPA                          |
|                          |   | Chip Humphrey / EPA                          |
|                          |   | Deborah Yamamoto / EPA                       |
|                          |   | Elizabeth Allen / EPA                        |
|                          |   | Cami Grandinetti / EPA                       |
| <b>Date: 9/17/2012</b>   | email; Portland Harbor BHHRA.   |  |
| DOCID: 672138            |   | <b>Authors:</b>                              |
| Pages: 3                 |   | Kristine Koch / EPA                          |
| Releasable               |   | <b>Addressee(s):</b>                         |
| (Contains ELECTRONIC REC |   | Jennifer Woronets / Anchor QEA, LLC          |
|                          |   | Robert Wyatt / Northwest Natural Gas Company |
|                          |   | Chip Humphrey / EPA                          |
|                          |   | Cami Grandinetti / EPA                       |
|                          |   | Jim McKenna / Lower Willamette Group         |
| <b>Date: 9/17/2012</b>   | Table 5 - LWG Proposed Revisions Re Exposure Scenario Context Information.        |  |
| DOCID: 672715            |   | <b>Authors:</b>                              |
| Pages: 4                 |   | Unknown Unknown / EPA                        |
| Releasable               |   |  |
| (Contains ELECTRONIC REC |   |  |



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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>                                     | <b>Dispute Resolution Documents</b>      |
| <b>Date: 9/26/2012</b>   | email; Extension for dispute briefing and my back up. |  |
| DOCID: 672139            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                          |
| Releasable               |   | Stephen Parkinson / Unknown              |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                     |
|                          |   | Lori Cora / EPA                          |
| <b>Date: 9/27/2012</b>   | LWG Position re BHHRA Uncertainty Discussion.         |  |
| DOCID: 672287            |   |  |
| Pages: 4                 |   | <b>Authors:</b>                          |
| Releasable               |   | unknown unknown / Lower Willamette Group |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                     |
|                          |   | Unknown Unknown / EPA                    |
| <b>Date: 10/1/2012</b>   | Letter Agreement to Amend AOC.                        |  |
| DOCID: 672141            |   |  |
| Pages: 14                |   | <b>Authors:</b>                          |
| Releasable               |   | Cami Grandinetti / EPA                   |
| (Contains ELECTRONIC REC |   |  |
| <b>Date: 10/3/2012</b>   | email; Portland Harbor Superfund Site.                |  |
| DOCID: 672142            |   |  |
| Pages: 2                 |   | <b>Authors:</b>                          |
| Releasable               |   | Jennifer Woronets / Anchor QEA, LLC      |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                     |
|                          |   | Deborah Yamamoto / EPA                   |
| <b>Date: 10/4/2012</b>   | email; Portland Harbor Superfund Site.                |  |
| DOCID: 672143            |   |  |
| Pages: 3                 |   | <b>Authors:</b>                          |
| Releasable               |   | Elizabeth McKenna / EPA                  |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                     |
|                          |   | Stephen Parkinson / Unknown              |
|                          |   | Lori Cora / EPA                          |
|                          |   | Kristine Koch / EPA                      |
|                          |   | Cami Grandinetti / EPA                   |
| <b>Date: 10/4/2012</b>   | TABS 50-54 SUPPORTING DOCUMENTS.                      |  |
| DOCID: 672288            |   |  |
| Pages: 88                |   | <b>Authors:</b>                          |
| Releasable               |   | Unknown Unknown / EPA                    |
| (Contains ELECTRONIC REC |   | <b>Addressee(s):</b>                     |
|                          |   | Unknown Unknown / EPA                    |
| <b>Date: 10/10/2012</b>  | Letter Agreement to Amend AOC 10-10-12.               |  |
| DOCID: 672140            |   |  |
| Pages: 14                |   | <b>Authors:</b>                          |
| Releasable               |   | Cami Grandinetti / EPA                   |
| (Contains ELECTRONIC REC |   |  |

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| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b> |
| <b>Date: 10/10/2012</b>  | email 2; Date for Oral Presentation of Formal Dispute Statements.             |                                     |
| DOCID: 672144            |   |                                     |
| Pages: 1                 | <b>Authors:</b>   |                                     |
| Releasable               | Lori Cora / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Stephen Parkinson / Unknown   |                                     |
| <b>Date: 10/10/2012</b>  | email; Date for Oral Presentation of Formal Dispute Statements.               |                                     |
| DOCID: 672145            |   |                                     |
| Pages: 1                 | <b>Authors:</b>   |                                     |
| Releasable               | Lori Cora / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Stephen Parkinson / Unknown   |                                     |
| <b>Date: 10/12/2012</b>  | EPA Final Response to LWG Formal Dispute Statement 10-12-2012.                |                                     |
| DOCID: 672707            |   |                                     |
| Pages: 24                | <b>Authors:</b>   |                                     |
| Releasable               | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | unknown unknown / Lower Willamette Group                                      |                                     |
| <b>Date: 10/12/2012</b>  | EPA Final Response to LWG Formal Dispute Statement (cover letter) 10-12-2012. |                                     |
| DOCID: 672708            |   |                                     |
| Pages: 4                 | <b>Authors:</b>   |                                     |
| Releasable               | Lori Cora / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Daniel Opalski / EPA  |                                     |
| <b>Date: 10/12/2012</b>  | LIST OF EXHIBITS 10-12-2012.  |                                     |
| DOCID: 672711            |   |                                     |
| Pages: 2                 | <b>Authors:</b>   |                                     |
| Releasable               | Unknown Unknown / EPA   |                                     |
| (Contains ELECTRONIC REC |   |                                     |
| <b>Date: 10/12/2012</b>  | UPS tracking.   |                                     |
| DOCID: 672718            |   |                                     |
| Pages: 2                 | <b>Authors:</b>   |                                     |
| Releasable               | Michael Wemigwans / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Kristine Koch / EPA   |                                     |

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|                          |  |  |
|--------------------------|--|--|
| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>  | <b>Dispute Resolution Documents</b>      |
| <b>Date: 10/15/2012</b>  | email; Signed Letter Agreement.  |  |
| DOCID: 672147            |  |  |
| Pages: 1                 |  | <b>Authors:</b>                          |
| Releasable               |  | Lori Cora / EPA                          |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                     |
|                          |  | Stephen Parkinson / Unknown              |
|                          |  | Kristine Koch / EPA                      |
|                          |  | Chip Humphrey / EPA                      |
|                          |  | Deborah Yamamoto / EPA                   |
| <b>Date: 10/15/2012</b>  | Letter Agreement 10-15-12.   |  |
| DOCID: 672710            |  |  |
| Pages: 2                 |  | <b>Authors:</b>                          |
| Releasable               |  | Cami Grandinetti / EPA                   |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                     |
|                          |  | Unknown Unknown / EPA                    |
| <b>Date: 10/15/2012</b>  | 10_15_12 email; Format of November 1 oral argument on PH risk assessment disput. |  |
| DOCID: 677113            |  |  |
| Pages: 1                 |  | <b>Authors:</b>                          |
| Releasable               |  | Lori Cora / EPA                          |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                     |
|                          |  | Kristine Koch / EPA                      |
|                          |  | Elizabeth Allen / EPA                    |
|                          |  | Deborah Yamamoto / EPA                   |
| <b>Date: 10/24/2012</b>  | email; LWG Reply to EPA Submission.  |  |
| DOCID: 672148            |  |  |
| Pages: 2                 |  | <b>Authors:</b>                          |
| Releasable               |  | Jennifer Woronets / Anchor QEA, LLC      |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                     |
|                          |  | Kristine Koch / EPA                      |
|                          |  | Chip Humphrey / EPA                      |
| <b>Date: 10/24/2012</b>  | LWG Reply to EPA Submission Formal Dispute.                                      |  |
| DOCID: 672289            |  |  |
| Pages: 22                |  | <b>Authors:</b>                          |
| Releasable               |  | unknown unknown / Lower Willamette Group |
| (Contains ELECTRONIC REC |  | <b>Addressee(s):</b>                     |
|                          |  | Daniel Opalski / EPA                     |

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|--------------------------|---|-------------------------------------|
| <b>SUB-HEAD:</b>         | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b> |
| <b>Date: 10/25/2012</b>  | email; Portland Harbor BHHRA Formal Dispute -- Partial Resolutio.                 |                                     |
| DOCID: 672149            |   |                                     |
| Pages: 1                 | <b>Authors:</b>   |                                     |
| Releasable               | Lori Cora / EPA   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Kristine Koch / EPA   |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Elizabeth Allen / EPA   |                                     |
|                          | Cami Grandinetti / EPA  |                                     |
|                          | Deborah Yamamoto / EPA  |                                     |
| <b>Date: 10/25/2012</b>  | Decision Memo_ Partial Resolution -LWG.   |                                     |
| DOCID: 672706            |   |                                     |
| Pages: 2                 | <b>Addressee(s):</b>  |                                     |
| Releasable               | Daniel Opalski / EPA  |                                     |
| (Contains ELECTRONIC REC |   |                                     |
| <b>Date: 11/6/2012</b>   | 11_06_12 email; Follow-up Request for Information -- Portland Harbor BHHRA .      |                                     |
| DOCID: 677114            |   |                                     |
| Pages: 0                 | <b>Authors:</b>   |                                     |
| Releasable               | Daniel Opalski / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Lori Cora / EPA   |                                     |
|                          | Kristine Koch / EPA   |                                     |
|                          | Chip Humphrey / EPA   |                                     |
|                          | Deborah Yamamoto / EPA  |                                     |
|                          | Elizabeth Allen / EPA   |                                     |
| <b>Date: 11/6/2012</b>   | 11_06_12 email; Follow-up Request for Information -- Portland Harbor BHHRA Disp.  |                                     |
| DOCID: 677115            |   |                                     |
| Pages: 2                 | <b>Authors:</b>   |                                     |
| Releasable               | Daniel Opalski / EPA  |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Lori Cora / EPA   |                                     |
|                          | Jim McKenna / Port of Portland  |                                     |
|                          | Jennifer Woronets / Lower Willamette Group  |                                     |
| <b>Date: 11/13/2012</b>  | 11_13_12 email attachment; 2012-11-09 EPA Assessment of Respondents Tables 1 & 2. |                                     |
| DOCID: 677116            |   |                                     |
| Pages: 0                 | <b>Authors:</b>   |                                     |
| Releasable               | Unknown Unknown / Unknown   |                                     |
| (Contains ELECTRONIC REC | <b>Addressee(s):</b>  |                                     |
|                          | Unknown Unknown / Unknown   |                                     |

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| <b>SUB-HEAD:</b>  | <b>1.1 Vol. 1</b>   | <b>Dispute Resolution Documents</b>  |
|---|---|--|
| <b>Date: 11/13/2012</b><br>DOCID: 677117<br>Pages: 37<br>Releasable<br>(Contains ELECTRONIC REC | 11_13_12 email attachment; 2012-11-13 LWG Response to Director Opalski's November 6 Request for Additional BHHRA Information. | <b>Authors:</b><br>unknown unknown / Lower Willamette Group<br><br><b>Addressee(s):</b><br>Daniel Opalski / EPA        |
| <b>Date: 11/13/2012</b><br>DOCID: 677118<br>Pages: 2<br>Releasable<br>(Contains ELECTRONIC REC  | 11_13_12 email attachment; List of Tasks to complete BHHRA 11-07-2012.  | <b>Authors:</b><br>Unknown Unknown / Unknown<br><br><b>Addressee(s):</b><br>Unknown Unknown / Unknown                  |
| <b>Date: 11/13/2012</b><br>DOCID: 677119<br>Pages: 3<br>Releasable<br>(Contains ELECTRONIC REC  | 11_13_12 email; EPA Responses to Dan Opalski's November 6 Questions.  | <b>Authors:</b><br>Chip Humphrey / EPA<br><br><b>Addressee(s):</b><br>Kristine Koch / EPA                              |
| <b>Date: 11/13/2012</b><br>DOCID: 677120<br>Pages: 2<br>Releasable<br>(Contains ELECTRONIC REC  | 11_13_12 email; LWG Response to Dan Opalski's Nov 6 Follow-up Request.  | <b>Authors:</b><br>Jennifer Woronets / Lower Willamette Group<br><br><b>Addressee(s):</b><br>Daniel Opalski / EPA      |
| <b>Date: 11/15/2012</b><br>DOCID: 677121<br>Pages: 2<br>Releasable<br>(Contains ELECTRONIC REC  | 11_15_12 email; Correction for the Portland Harbor BHHRA Formal Dispute Record.   | <b>Authors:</b><br>Elizabeth Allen / EPA<br><br><b>Addressee(s):</b><br>Daniel Opalski / EPA<br>Richard Albright / EPA |
| <b>Date: 12/7/2012</b><br>DOCID: 677122<br>Pages: 1<br>Releasable<br>(Contains ELECTRONIC REC   | 12_07_12 email attachment; Portland Harbor Dispute Resolved 12-07-12.   | <b>Authors:</b><br>Unknown Unknown / Unknown<br><br><b>Addressee(s):</b><br>Unknown Unknown / Unknown                  |
| <b>Date: 12/7/2012</b><br>DOCID: 677123<br>Pages: 10<br>Releasable<br>(Contains ELECTRONIC REC  | 12_07_12 email attachment; Portland Harbor.   | <b>Authors:</b><br>Unknown Unknown / Unknown<br><br><b>Addressee(s):</b><br>Unknown Unknown / Unknown                  |

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**SUB-HEAD: 1.1 Vol. 1 Dispute Resolution Documents**

**Date: 12/7/2012** 12\_07\_12 email; Final Resolution.

DOCID: 677124

Pages: 1

Releasable

(Contains ELECTRONIC REC

**Authors:**

Daniel Opalski / EPA

**Addressee(s):**

Lori Cora / EPA

Kristine Koch / EPA

Chip Humphrey / EPA

**Date: 12/18/2012** 12\_18\_12 email; Portland Harbor dispute resolution question.

DOCID: 677125

Pages: 2

Releasable

(Contains ELECTRONIC REC

**Authors:**

Unknown Unknown / Unknown

**Addressee(s):**

Unknown Unknown / Unknown

**Date: 12/23/2012** Initial Risk Assessment Combined.

DOCID: 672280

Pages: 15

Releasable

(Contains ELECTRONIC REC

**Authors:**

Chip Humphrey / EPA

**Addressee(s):**

Robert Wyatt / Northwest Natural Gas Company

(Contains ELECTRONIC REC